

PUMPS-PERISTALTIC

SP100VCA

Variable-flow

Remote Control

Reversible

New SP100VCA Variable-Flow Pumps

These low-cost peristaltic pumps are among the most compact, most powerful variable-flow pumps in the market. Flow rates are available from 0 to 62 ml/min. They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from two different motor speeds, three different tubing sizes and a variety of tubing materials. Tygon® A60G tubing offers the longest pump life, Silicone is the softest with higher flow rates. Viton® provides excellent chemical resistance. Modular power supplies and battery packs are available.

The pumpheads have ABS plastic housings, acetal rotor assembly with four stainless steel rollers. These brush Vdc motors are reversible. Silicone and Tygon® A60G pump systems are supplied with polypropylene fittings. Viton® systems are supplied with PVDF fittings. One year warranty.

Installation Note: These brush-type Vdc motors are rated for intermittent duty. Request information on our heavy-duty and brushless DC motors for continuous-duty applications.



Compact, variable-flow SP100VCA pumps with optional remote control.

SPECIAL FEATURES

Fluid only contacts the tubing Self-priming, run dry without damage Variable-flow 12Vdc motors Consistent metering capability Compact size

SPECIFICATIONS

Tygon®, Viton® Silicone

Max. Fluid Pressure: 30 psig (2 bar) 10 psig (0.7 bar)

Max. Suction Lift:

Accuracy: ±5% full scale
Repeatability: ±5% full scale
Max. Fluid Temp.: 93°C (200°F)
Duty Cycle: Intermittent

Operating Temp.: 0 to 50°C (32 to 122°F)

Enclosure: ABS plastic

Wetted parts: Various tubing materials.

Power: 12Vdc; 150 to 500 mA, 115V (24Vdc models available)

Dimensions (W x H x D): 84 x 140 x 97 mm;

(3.3 x 5.5 x 3.8 in.)

Shipping Wt: 0.9 kg (2 lbs)

APPLICATIONS

Chemical metering
Reagent dispensing
Waste chemical removal
Analytical instruments
Research & Development

SP100VCA Max Flowrates (ml/min)

Motor		Tubing ID (mm)			
RPM	<u>Vdc</u>	<u>Amps</u>	3.0	<u>1.6</u>	<u>8.0</u>
330	12	400 mA	62	17	5.6
70	12	200 mA	13	3.6	1.2

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Tygon A60G (formerly Norprene) tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightlyl lower. Other RPMs and 24 Vdc systems are available. Inquire.

SP100VCAPS-L18-p1

Flow Rate	<u>Tubing</u>			Pump Part No.	
ml/min	ID	RPM Range	V-Flow,I/O	V-Flow,I/O/R	V-Flow,I/O/R,Rem
12Vdc Pumps - Variable-flow; up to 500 mA current draw; Select Tubing Material below.					
0 to 62	3.0 mm (1/8")				
0 to 17	1.6 mm (1/16")	0 to 330	SP10XV1-513	SP10XV1R-513	SP10XV3R-513
0 to 5.6	0.8 mm (1/32")				
0 to 13	3.0 mm (1/8")				
0 to 3.6	1.6 mm (1/16")	0 to 70	SP10XV1-509	SP10XV1R-509	SP10XV3R-509
0 to 1.2	0.8 mm (1/32")				

V-Flow=Variable-flow; I/O=On/Off Switch; I/O/R=On/Off/Reverse Switch; Rem=Remote Speed (0-5Vdc); Rem Start/Stop; Remote Direction. Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure.

Other RPMs and 24 Vdc systems are available. Other motor rpms and special tubing options are available on special order. Call for details.

Tubing Set Material Selection							
Part No:	<u>Description</u>	Sizes Incl.(mm)	<u>Fitting</u>	Application Recommendations			
SP101-980AF	Tygon® A60G	3, 1.6 ID	PP	Longest flex life, Black, Good with Acids/Bases			
SP101F-980AF	Tygon® A60F	3, 1.6, 0.8 ID	PP	Longest flex life, Beige, Food-Grade			
SP104L-980AF	Tygon [®] LFL	3, 1.6 ID	PP	Long flex life, Clear, USP, FDA			
SP100-980AF	Silicone	3, 1.6, 0.8 ID	PP	Good flex life, Translucent, General Purpose			
SP100P-980AF	Tygon® 3350 (Sil)	3, 1.6 ID	PP	Good flex life, Translucent, USP, ultra smooth			
SP104P-980AF	Tygon® F-4040	3, 1.6 ID	PP	Good flex life, Yellow Transl, Fuel/Lubricant			
SP104X-980AF	Tygon® XL-60	3, 1.6 ID	PP	Good flex life Clear, General Purpose			
SP101R-980AF	Tygon® Chemical	3, 1.6 ID	PP	Long flex life, Beige, Chem Resistant liner			
SP102-980AF	Viton®	3, 1.6, 0.8 ID	PVDF	Good flex life, Black, FDA, Chem Resist-Organics			

VAC power supply

Convert these compact drives to VAC models with a compact power supply. 5.5 OD x 2.5mm ID (center +) connector. Order the optional power supply.

PS100.010 Power supply, 115Vac/12Vdc, 1A; US Std plug. PS100.015E Power supply, 230Vac/12Vdc, 1A; Europ. plug.

Specifications subject to change.

APT Instruments provides no warranty on usage of pumps or life of tube. Immersion and life tests are recommended prior to use. SmallPumps-TM Advanced Product Technology, LLC Viton-Reg TM DuPont Dow Elastomers LLC

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For more information contact:

APT Instruments Omaha, NE 68144 USA 877.324.5444 Toll-free 217.498.0342 * 217.498.0352Fx www.aptinstruments.com sales@aptinstruments.com